

KOREAN INTELLECTUAL PROPERTY OFFICE

KOREAN PATENT ABSTRACTS

(11)Publication number: 1020010039013 A
(43)Date of publication of application: 15.05.2001

(21)Application number: 1019990047219

(71)Applicant: TAESAN LCD CO., LTD.

(22)Date of filing: 28.10.1999

(72)Inventor: NOH, JAE HEON

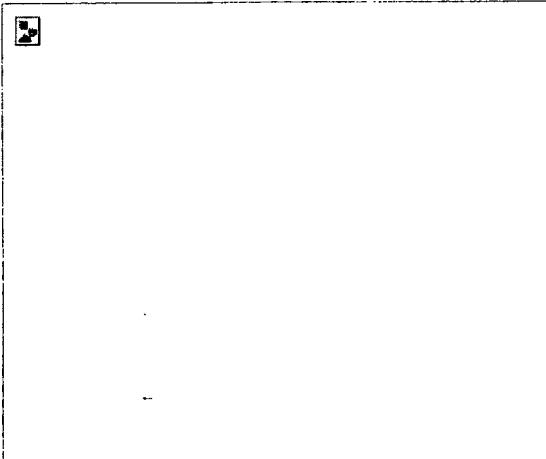
(51)Int. Cl. G02F 1/1335

(54) LIGHT GUIDE PANEL OF BACKLIGHT UNIT FOR LCD

(57) Abstract:

PURPOSE: A light guide panel of a backlight for an LCD(liquid crystal display) unit is to refract light incident to the light guide panel at all angles to increase luminance, thereby increasing the brightness of the emitted light and also simplifying a fabricating process.

CONSTITUTION: A light guide panel(20) radiates light incident from a fluorescent lamp through a diffusing material to a luminous region. A light incident surface has at least one inclined face at a desired angle, which is formed in a vertical direction. The inclined face is continuously aligned in the vertical direction to form a concavo-convex portion. The concavo-convex portion is formed into an arc or a triangular. The light guide panel is formed of PMMA(Polymethylmethacrylate) resin. A diffusing material is coated at a lower portion of the light guide panel. When the light emitted from the fluorescent lamp is incident to the light guide panel, the light is incident to the diffusing material then radiated to the luminous region. At this time, the light incident to the light incident surface of the light guide panel is refracted at an inner portion of the light guide panel.



COPYRIGHT 2001 KIPO

Legal Status

Date of final disposal of an application (20020731)

(51) Int. Cl.⁶
G02F 1/1335

(43) 공개일자 2001년05월15일

(22) 출원일자 1999년 10월 28일

경기 성남시 분당구 야탑동 145번지 성남공장아파트 다동 801호

경기도성남시분당구야탑동145번지성남공장APT형다동205호

(74) 대리인 김수진, 윤익섭

(54) 엘씨디용 백라이트 유닛의 도광판

6-1